Pedalcycles in Motor Vehicle Crashes



Injury Severity of All Persons Involved

		Fatalities & Injuries					
Severity of Injury	Pedalcycles		All O	thers			
	Number	Percent	Number	Percent			
Fatal	3	100.00%	0	0.00%			
Major	53	100.00%	0	0.00%			
Minor	306	99.67%	1	0.33%			
Possible	98	96.08%	4	3.92%			
Unknown	3	100.00%	0	0.00%			
Total	463	98.93%	5	1.07%			

This chart compares injury severity of pedalcyclists with all other fatalities and injuries (i.e., occupants of other vehicles, pedestrians) in crashes that involved pedalcycles.

Fatalities & Injuries by Gender

Condor of Padalovalists	Fatalities & Injuries			
Gender of Pedalcyclists Killed & Injured	Killed		Injured	
	Number	Percent	Number	Percent
Female	0	0.00%	105	22.83%
Male	3	100.00%	355	77.17%
Unknown	0	0.00%	0	0.00%
Total	3	100.00%	460	100.00%

Fatalities & Injuries by Age Group

-		Fatalities	& Injuries	
Age Group of Pedalcyclists		led	Inju	
Killed & Injured	Number	Percent		
Unc	der Age 21			
14 &Under	0	0.00%	248	53.91%
15	0	0.00%	23	5.00%
16	0	0.00%	8	1.74%
17	0	0.00%	8	1.74%
18	0	0.00%	5	1.09%
19	0	0.00%	11	2.39%
20	0	0.00%	8	1.74%
Total	0	0.00%	311	67.61%
A	All Ages			
14 & Under	0	0.00%	248	53.91%
15 to 24	0	0.00%	82	17.83%
25 to 34	0	0.00%	46	10.00%
35 to 44	1	33.33%	34	7.39%
45 to 54	1	33.33%	16	3.48%
55 to 64	1	33.33%	8	1.74%
65 to 74	0	0.00%	5	1.09%
75 & Over	0	0.00%	1	0.22%
Unknown	0	0.00%	20	4.35%
Total	3	100.00%	460	100.00%

Under age 21 percentages based on total for all ages.

Out of 63,364 total crashes, one or more pedalcycles were involved in:

- 462 crashes (all types)
- 3 fatal crashes
- 453 injury crashes
 - 6 property damage crashes

3 riders were killed, or 00.67% of all fatalities 460 riders were injured, or 01.29% of all injuries

Fatalities & Injuries by Protective Device

Protective Device		Fatalities	& Injuries	& Injuries	
Used by Pedalcyclists	Kil	led	Inju	ıred	
Killed & Injured	Number	Percent	Number	Percent	
None	1	33.33%	328	71.30%	
Lap Belt	0	0.00%	0	0.00%	
Lap & Shoulder Belt	0	0.00%	0	0.00%	
Airbag Deployed	0	0.00%	0	0.00%	
Child Restraint	0	0.00%	0	0.00%	
Helmet	1	33.33%	9	1.96%	
Passive Belt	0	0.00%	0	0.00%	
Other	0	0.00%	26	5.65%	
Unknown	1	33.33%	97	21.09%	
Total	3	100.00%	460	100.00%	

Fatalities & Injuries by Position

Position of		Fatalities	& Injuries	;
Pedalcyclists	Kil	led	Injured	
Killed & Injured	Number	Percent	Number	Percent
Driver	0	0.00%	0	0.00%
Front Seat Passenger	0	0.00%	0	0.00%
Back Seat Passenger	0	0.00%	0	0.00%
Third+ Seat Passenger	0	0.00%	0	0.00%
Bus Passenger	0	0.00%	0	0.00%
Riding on Exterior	0	0.00%	0	0.00%
MC/Moped Driver	0	0.00%	0	0.00%
MC/Moped Passenger	0	0.00%	0	0.00%
Pedalcyclist	3	100.00%	460	100.00%
Other	0	0.00%	0	0.00%
Unknown	0	0.00%	0	0.00%
Total	3	100.00%	460	100.00%

Fatalities & Injuries by Area of Injury

Area of Injury of	Fatalities & Injuries				
Pedalcyclists	Kil	led	Inju	Injured	
Killed & Injured	Number	Percent	Number	Percent	
Upper Torso	0	0.00%	31	6.74%	
Lower Torso	0	0.00%	15	3.26%	
Internal	1	33.33%	1	0.22%	
Head	1	33.33%	50	10.87%	
Arms	0	0.00%	48	10.43%	
Legs	0	0.00%	96	20.87%	
Multiple	1	33.33%	190	41.30%	
Other/Unknown	0	0.00%	29	6.30%	
Total	3	100.00%	460	100.00%	

Pedalcycles in Motor Vehicle Crashes

Riders by Gender

Gender of		Pedalo	yclists	
Pedalcyclists	Fa	Fatal		roperty
in Crashes	in Crashes Number Percent		Number	Percent
Female	0	0.00%	105	22.53%
Male	3	100.00%	360	77.25%
Unknown	0	0.00%	1	0.21%
Total	3	100.00%	466	100.00%

Riders by Age Group

Age Group of		Pedalo	yclists	
Pedalcyclists	Fa	tal	Injury/Property	
Crashes	Number	Percent	Number	Percent
Und	der Age 21			
14 &Under	0	0.00%	248	53.22%
15	0	0.00%	23	4.94%
16	0	0.00%	8	1.72%
17	0	0.00%	8	1.72%
18	0	0.00%	5	1.07%
19	0	0.00%	11	2.36%
20	0	0.00%	8	1.72%
Total	0	0.00%	311	66.74%
, and a second s	All Ages			
14 & Under	0	0.00%	248	53.22%
15 to 24	0	0.00%	82	17.60%
25 to 34	0	0.00%	46	9.87%
35 to 44	1	33.33%	34	7.30%
45 to 54	1	33.33%	16	3.43%
55 to 64	1	33.33%	8	1.72%
65 to 74	0	0.00%	5	1.07%
75 & Over	0	0.00%	1	0.21%
Unknown	0	0.00%	26	5.58%
Total	3	100.00%	466	100.00%

Under age 21 percentages based on total for all ages.

Bicycle/Pedalcycle Action

	Pedalcycles				
Pedalcycle Action in Crashes	Fa	tal	Injury/P	Injury/Property	
in Crasnes	Number	Percent	Number	Percent	
Going Straight	1	33.33%	194	41.63%	
Turning Left	0	0.00%	19	4.08%	
Turning Right	0	0.00%	11	2.36%	
Making U-Turn	0	0.00%	0	0.00%	
Passing	0	0.00%	0	0.00%	
Changing Lanes	0	0.00%	1	0.21%	
Merging	0	0.00%	1	0.21%	
Parking	0	0.00%	0	0.00%	
Slowing/Stopping	0	0.00%	2	0.43%	
Backing	0	0.00%	0	0.00%	
Stopped for Sign/Signal	0	0.00%	0	0.00%	
Stopped in Traffic	0	0.00%	0	0.00%	
Stalled in Traffic	0	0.00%	0	0.00%	
Properly Parked	0	0.00%	0	0.00%	
Improperly Parked	0	0.00%	0	0.00%	
Unattended Moving Vehicle	0	0.00%	0	0.00%	
Other	0	0.00%	15	3.22%	
Unknown	2	66.67%	223	47.85%	
Total	3	100.00%	466	100.00%	

Riders by Condition

Condition of		Pedalo	yclists	
Pedalcyclists	Fa	tal	Injury/F	roperty
in Crashes	Number	Percent	Number	Percent
Apparently Normal	1	33.33%	208	44.64%
Physical Defect	0	0.00%	2	0.43%
Fatigued	0	0.00%	0	0.00%
Apparently Asleep	0	0.00%	0	0.00%
Illness	0	0.00%	0	0.00%
Under Medication	0	0.00%	0	0.00%
Infirmities of Age	0	0.00%	3	0.64%
Drinking-Not Impaired	0	0.00%	3	0.64%
Drinking-Impaired	0	0.00%	1	0.21%
Drugs	0	0.00%	0	0.00%
Other	0	0.00%	5	1.07%
Unknown	2	66.67%	244	52.36%
Total	3	100.00%	466	100.00%

Contributing Circumstances

Contributing	Pedalcycles					
Circumstances	Fa	tal	Injury/Property			
Circumstances	Number	Percent	Number	Percent		
None Apparent	1	33.33%	70	13.89%		
Ran Traffic signal	0	0.00%	8	1.59%		
Ran Stop Sign	0	0.00%	22	4.37%		
Passed Stopped School Bus	0	0.00%	0	0.00%		
Improper Passing	0	0.00%	4	0.79%		
Left of Center, Not Passing	0	0.00%	5	0.99%		
FTYROW at Intersection	0	0.00%	9	1.79%		
FTYROW From Stop Sign	0	0.00%	8	1.59%		
FTYROW From Yield Sign	0	0.00%	0	0.00%		
FTYROW Making Left Turn	0	0.00%	3	0.60%		
FTYROW From Driveway	0	0.00%	8	1.59%		
FTYROW From Parked	0	0.00%	0	0.00%		
FTYROW to Pedestrian	0	0.00%	1	0.20%		
FTYROW Other	0	0.00%	12	2.38%		
Wrong Way/One-Way	0	0.00%	1	0.20%		
Too Fast for Conditions	0	0.00%	5	0.99%		
Exceeding Speed Limit	0	0.00%	1	0.20%		
Drag Racing	0	0.00%	0	0.00%		
Improper Turn	0	0.00%	1	0.20%		
Improper Lane Change	0	0.00%	2	0.40%		
Following Too Close	0	0.00%	2	0.40%		
No/Improper Signal	0	0.00%	2	0.40%		
Disregarded Railroad Signal	0	0.00%	0	0.00%		
Disregarded Warning Signal	0	0.00%	2	0.40%		
Reckless Driving	0	0.00%	2	0.40%		
Improper Backing	0	0.00%	0	0.00%		
Illegal/Improper Parking	0	0.00%	0	0.00%		
Failure to Control Vehicle	0	0.00%	4	0.79%		
Headlights Not On	0	0.00%	8	1.59%		
Inattentive/Distracted	0	0.00%	20	3.97%		
Confused	0	0.00%	0	0.00%		
Vision Obscured	0	0.00%	11	2.18%		
Oversized/Loaded Vehicle	0	0.00%	2	0.40%		
Inexperienced Driver	0	0.00%	8	1.59%		
Other	0	0.00%	27	5.36%		
Unknown	2	66.67%	256	50.79%		
Total	3	100.00%	504	100.00%		
Up to two circumstances may be listed for each driver/vehicle involved in a crash						

Up to two circumstances may be listed for each driver/vehicle involved in a crash. FTYROW—Failure to Yield Right-of-Way.

Mopeds & All Terrain Vehicles



Injury Severity of All Persons Involved

	Fatalities & Injuries					
Severity of Injury	Mopeds		All O	thers		
	Number	Number Percent		Percent		
Fatal	3	100.00%	0	0.00%		
Major	26	96.30%	1	3.70%		
Minor	52	89.66%	6	10.34%		
Possible	13	81.25%	3	18.75%		
Unknown	2	100.00%	0	0.00%		
Total	96	90.57%	10	9.43%		

This chart compares injury severity of moped and all terrain vehicle riders with all other fatalities and injuries (i.e., occupants of other vehicles, pedestrians) in crashes that involved mopeds and all terrain vehicles.

Fatalities & Injuries by Gender

Gender of	Fatalities & Injuries				
Killed & Injured	Killed		Injured		
Killed & Illjured	Number	Percent	Number	Percent	
Female	0	0.00%	14	15.05%	
Male	3	100.00%	79	84.95%	
Unknown	0	0.00%	0	0.00%	
Total	3	100.00%	93	100.00%	

Fatalities & Injuries by Age Group

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Age Group of	Fatalities & Injuries			
Killed & Injured	Killed		Injured	
	Number	Percent	Number	Percent
Unc	der Age 21			
14 &Under	0	0.00%	29	31.18%
15	0	0.00%	15	16.13%
16	0	0.00%	9	9.68%
17	1	33.33%	5	5.38%
18	0	0.00%	6	6.45%
19	1	33.33%	0	0.00%
20	0	0.00%	1	1.08%
Total Under 21*	2	66.67%	65	69.89%
A	All Ages			
14 & Under	0	0.00%	29	31.18%
15 to 24	2	66.67%	39	41.94%
25 to 34	0	0.00%	8	8.60%
35 to 44	0	0.00%	5	5.38%
45 to 54	1	33.33%	7	7.53%
55 to 64	0	0.00%	2	2.15%
65 to 74	0	0.00%	1	1.08%
75 & Over	0	0.00%	2	2.15%
Unknown	0	0.00%	0	0.00%
Total	3	100.00%	93	100.00%

Under age 21 percentages based on total for all ages.

Out of 63,364 total crashes, one or more mopeds or all terrain vehicles were involved in:

- 116 crashes (all types)
 - 3 fatal crashes
- 91 injury crashes
- 22 property damage crashes
- 3 riders were killed, or 00.67% of all fatalities
- 93 riders were injured, or 00.26% of all injuries

Fatalities & Injuries by Protective Device

Protective Device	Fatalities & Injuries			
	Killed		Injured	
Device	Number	Percent	Number	Percent
None	3	100.00%	61	65.59%
Lap Belt	0	0.00%	0	0.00%
Lap & Shoulder Belt	0	0.00%	5	5.38%
Airbag Deployed	0	0.00%	0	0.00%
Child Restraint	0	0.00%	0	0.00%
Motorcycle Helmet	0	0.00%	8	8.60%
Passive Belt	0	0.00%	0	0.00%
Other	0	0.00%	2	2.15%
Unknown	0	0.00%	17	18.28%
Total	3	100.00%	93	100.00%

Fatalities & Injuries by Position

Position	Fatalities & Injuries			
in Vehicle	Kil	led	Injured	
III Veriicie	Number	Percent	Number	Percent
Driver	3	100.00%	38	40.86%
Front Seat Passenger	0	0.00%	0	0.00%
Back Seat Passenger	0	0.00%	0	0.00%
Third+ Seat Passenger	0	0.00%	0	0.00%
Bus Passenger	0	0.00%	0	0.00%
Riding on Exterior	0	0.00%	0	0.00%
MC/Moped Driver	0	0.00%	47	50.54%
MC/Moped Passenger	0	0.00%	2	2.15%
Pedalcyclist	0	0.00%	0	0.00%
Unknown	0	0.00%	6	6.45%
Total	3	100.00%	93	100.00%

Fatalities & Injuries by Area of Injury

	Fatalities & Injuries			
Area of Injury	Kil	led	Inju	ıred
	Number	Percent	Number	Percent
Upper Torso	0	0.00%	8	8.60%
Lower Torso	0	0.00%	3	3.23%
Internal	0	0.00%	1	1.08%
Head	1	33.33%	13	13.98%
Arms	0	0.00%	6	6.45%
Legs	0	0.00%	13	13.98%
Multiple	1	33.33%	49	52.69%
Other/Unknown	1	33.33%	0	0.00%
Total	3	100.00%	93	100.00%

Mopeds & All Terrain Vehicles

Drivers by Gender

Gender of Driver	Drivers in Crashes			
	Fatal		Injury/Property	
	Number	Percent	Number	Percent
Female	0	0.00%	13	11.30%
Male	3	100.00%	101	87.83%
Unknown	0	0.00%	1	0.87%
Total	3	100.00%	115	100.00%

Drivers by Age Group

Age Group	Drivers in Crashes			
of Driver	Fa	tal	Injury/Property	
of Briver	Number	Percent	Number	Percent
Und	der Age 21			
14 &Under	0	0.00%	27	23.48%
15	0	0.00%	18	15.65%
16	0	0.00%	7	6.09%
17	1	33.33%	6	5.22%
18	0	0.00%	6	5.22%
19	1	33.33%	3	2.61%
20	0	0.00%	1	0.87%
Total Under 21*	2	66.67%	68	59.13%
	All Ages			
14 & Under	0	0.00%	27	23.48%
15 to 24	2	66.67%	48	41.74%
25 to 34	0	0.00%	14	12.17%
35 to 44	0	0.00%	6	5.22%
45 to 54	1	33.33%	10	8.70%
55 to 64	0	0.00%	5	4.35%
65 to 74	0	0.00%	3	2.61%
75 & Over	0	0.00%	1	0.87%
Unknown	0	0.00%	1	0.87%
Total	3	100.00%	115	100.00%

Under age 21 percentages based on total for all ages.

Vehicle Action

	Vehicles in Crashes				
Vehicle Action	Fa	tal	Injury/Property		
	Number	Percent	Number	Percent	
Going Straight	1	33.33%	82	70.09%	
Turning Left	0	0.00%	7	5.98%	
Turning Right	1	33.33%	1	0.85%	
Making U-Turn	0	0.00%	1	0.85%	
Passing	0	0.00%	1	0.85%	
Changing Lanes	0	0.00%	0	0.00%	
Merging	0	0.00%	0	0.00%	
Parking	0	0.00%	0	0.00%	
Slowing/Stopping	0	0.00%	4	3.42%	
Backing	0	0.00%	1	0.85%	
Stopped for Sign/Signal	0	0.00%	0	0.00%	
Stopped in Traffic	0	0.00%	0	0.00%	
Stalled in Traffic	0	0.00%	0	0.00%	
Properly Parked	0	0.00%	2	1.71%	
Improperly Parked	0	0.00%	1	0.85%	
Unattended Moving Vehicle	0	0.00%	0	0.00%	
Other	0	0.00%	7	5.98%	
Unknown	1	33.33%	10	8.55%	
Total	3	100.00%	117	100.00%	

Drivers by Condition

Driver	Drivers in Crashes				
Condition	Fa	tal	Injury/Property		
Condition	Number	Percent	Number	Percent	
Apparently Normal	2	66.67%	93	80.87%	
Physical Defect	0	0.00%	0	0.00%	
Fatigue	0	0.00%	0	0.00%	
Apparently Asleep	0	0.00%	0	0.00%	
Illness	0	0.00%	1	0.87%	
Under Medication	0	0.00%	0	0.00%	
Infirmities of Age	0	0.00%	0	0.00%	
Drinking-Not Impaired	0	0.00%	0	0.00%	
Drinking-Impaired	0	0.00%	4	3.48%	
Drugs	0	0.00%	2	1.74%	
Other	0	0.00%	2	1.74%	
Unknown	1	33.33%	13	11.30%	
Total	3	100.00%	115	100.00%	

Driver/Vehicle Related Circumstances

Contributing	Moped Drivers			
Circumstances		tal		roperty
	Number	Percent	Number	Percent
None Apparent	0	0.00%	37	26.43%
Ran Traffic Signal	0	0.00%	0	0.00%
Ran Stop Sign	1	25.00%	4	2.86%
Passed Stopped School Bus	0	0.00%	0	0.00%
Improper Passing	0	0.00%	1	0.71%
Left of Center, Not Passing	0	0.00%	1	0.71%
FTYROW at Intersection	0	0.00%	3	2.14%
FTYROW from Stop Sign	0	0.00%	4	2.86%
FTYROW from Yield Sign	0	0.00%	0	0.00%
FTYROW Making Left Turn	0	0.00%	0	0.00%
FTYROW from Driveway	2	50.00%	1	0.71%
FTYROW from Parked	0	0.00%	0	0.00%
FTYROW to Pedestrian	0	0.00%	0	0.00%
FTYROW Other	0	0.00%	3	2.14%
Wrong Way/One-Way	0	0.00%	1	0.71%
Too Fast for Conditions	0	0.00%	5	3.57%
Exceeding Speed Limit	0	0.00%	0	0.00%
Drag Racing	0	0.00%	0	0.00%
Improper Turn	0	0.00%	1	0.71%
Improper Lane Change	0	0.00%	0	0.00%
Following Too Close	0	0.00%	4	2.86%
No/Improper Signal	0	0.00%	0	0.00%
Disregarded Railroad Signal	0	0.00%	0	0.00%
Disregarded Warning Signal	0	0.00%	0	0.00%
Reckless Driving	0	0.00%	6	4.29%
Improper Backing	0	0.00%	1	0.71%
Illegal/Improper Parking	0	0.00%	1	0.71%
Failure to Control Vehicle	0	0.00%	24	17.14%
Headlights Not On	0	0.00%	2	1.43%
Inattentive/Distracted	1	25.00%	8	5.71%
Confused	0	0.00%	0	0.00%
Vision Obscured	0	0.00%	1	0.71%
Oversized/Loaded Vehicle	0	0.00%	0	0.00%
Inexperienced Driver	0	0.00%	10	7.14%
Other	0	0.00%	8	5.71%
Unknown	0	0.00%	14	10.00%
Total	4	100.00%	140	100.00%

Up to two circumstances may be listed for each driver/vehicle involved in a crash. FTYROW—Failure to Yield Right-of-Way.